

iPhone 5 RF Exposure Information

iPhone has been tested and meets applicable limits for Radio Frequency (RF) exposure.

Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. SAR limits are 1.6 Watts per kilogram (over a volume containing a mass of 1 gram of tissue) in countries that follow the United States FCC limit and 2.0 W/kg (averaged over 10 grams of tissue) in countries that follow the Council of the European Union limit. During testing, iPhone radios are set to their highest transmission levels and placed in positions that simulate use against the head, with no separation, and near the body, with 10mm separation.

To reduce exposure to RF energy, use a hands-free option, such as the built-in speakerphone, the supplied headphones or other similar accessories. Carry iPhone at least 10mm away from your body to ensure exposure levels remain at or below the as-tested levels. Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified.

Although this device has been tested to determine SAR in each band of operation, not all bands are available in all areas. Bands are dependent on your service provider's wireless and roaming networks.

 Band	 Transmit Frequency	 FCC 1g SAR Limit (W/kg)¹	 Body	 Head
GSM 850 UMTS V 850 CDMA 800 (BC 0) LTE Band 5	824–849	1.6	1.04	0.972
GSM 1900 UMTS II 1900 CDMA 1900 (BC 1) LTE Band 2	1850–1910	1.6	1.18	1.18
BC10	817–823	1.6	0.876	0.925
LTE Band 13	777–787	1.6	0.645	0.616
LTE Band 17	704–716	1.6	0.547	
LTE Band 3 ³	1710–1785	1.6		1.12
LTE Band 4	1710–1755	1.6	1.18	1.25
LTE Band 25	1850–1915	1.6	1.18	
UMTS 2100 ³	1920–1980	1.6		0.907
2.4 GHz Wi-Fi	2400–2483.5	1.6	0.198	0.572
	5150–5250	1.6	0.13	0.594

5 GHz Wi-Fi	5250-5350	1.6	0.114	0.575
	5500-5700	1.6	0.089	0.593
	5725-5850	1.6	0.067	0.593

 Band	 Transmit Frequency	 EU 10g SAR Limit (W/Kg) ²	 Body	 Head
UMTS 850 ⁴	824-849	2.0	0.625	0.493
EGSM 900 UMTS 900	880-915	2.0	0.951	0.747
GSM 1800 LTE Band 3	1710-1785	2.0	0.824	0.453
UMTS 2100 LTE Band 1	1920-1980	2.0	0.611	0.901
2.4 GHz Wi-Fi	2400-2483.5	2.0	0.103	0.349
5 GHz Wi-Fi	5150-5350	2.0	0.081	0.485
	5500-5700	2.0	0.109	0.556

1. FCC OET Bulletin 65, Supplement C (Edition 01-01) & IEEE 1528-2003, & Canada RSS 102, Issue 4, March 2010.

2. European Council Recommendation of 12 July 1999 on the Limitation of Exposure of the General Public to Electromagnetic Fields [1999/519/EC].

3. Only in Korea; Head measurements only for these bands, per KCC regulation. 대한민국에만 적용: 방송통신위원회(Korean Communication Commission) 지침에 따라 해당 대역대(주파수)에서는 머리만 측정

4. Australia Only